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properties of surfaces of the second degree with three unequal axes. And accordingly (in the Philosophical Magazine for September, 1844), I have examined what are the results of that process, when the centre of the surface is made the origin of transformation, and in this way I have been led to discover the properties of two cylinders, remarkably related to the surfaces of the second degree.

“5. But, more generally still, we may transform those focal properties, placing the centre of our auxiliary sphere at any point of space ; and thus the following leading problem is suggested and solved :

“*Given any surface of the second degree, and a point anywhere situated, to trace on the surface all the plane curves, which, viewed from the given point, shall appear to be circles.*”

“The brief indications given in the present note will, of course, require large developments ; and these, with the permission of the Academy, I shall endeavour to supply on some future occasion. My object in what I have now said has been merely to direct attention in a general way to several considerable groups of the properties of curves and surfaces of the second degree, which may, with advantage, be studied as results of the Polar Transformation.”

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